

TARGETING GENE EXPRESSION TO LIVING TISSUE
USING JET INJECTION

ABSTRACT OF THE DISCLOSURE

The present invention provides a method of targeting transient gene expression and stable gene expression from the exogenous administration of a DNA sequence, which sequence is less than a complete genome, wherein said DNA sequence encodes RNA and protein, or RNA only, to differentiate tissue of living organisms wherein said DNA sequence through a jet injector technique, and said DNA sequence of less than a complete genome is expressed in a living organism. The present invention further provides a flexible multi-nozzle injector device with a wide surface area to allow molding of the injector nozzle to the surface contours of the tissue. Another aspect of the present invention provides an injection device having a long nozzle for injection of DNA deep into the host tissue. Also, in a further aspect the present invention provides an injector device modified to be used with and/or inject through an endoscopic device.